

**SONALI R. TANGADPALLIWAR**

**M. Tech Automotive Engineering**

**Mob : +91 9822011045**

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## **Career Objective**

An enthusiastic fresher passionate about automobiles and continuously strive for higher achievement in innovation and accept challenging work and contribute forward the success of organisation by implementing my acquired skills and knowledge to the company by fulfilling the tasks

## **Project Experience**

### **M.Tech Master Thesis**

Company Name	<b>Mercedes Benz Research and Development India (MBRDI)</b>
Designation	<b>Project Intern</b>
Duration	<b>9<sup>th</sup> January 2017 to 30 June 2017(six Months)</b>
Project Title	<b>Forming feasibility analysis of B-Pillar and its weight reduction by replacing it with existing material by using simulating Autoform R6 software.</b>
Description	<b>Sheet metal analysis of B-Pillar to check its feasibility and reduce its weight by replacing it with Aluminum 6xxx series by existing DP800 material. Analysis done on Autoform R6 software to get approximate 30-40% weight reduction of B-pillar.</b>

### **B.Tech Final Thesis**

Institution	<b>Government college of engineering, Chandrapur</b>
Designation	<b>Student Intern</b>
Duration	<b>15 December to 30 April 2014 (six Months)</b>
Project Title	<b>3-D Modelling of moped suspension system for component analysis with static and dynamic load for performance improvement</b>
Description	<b>Objective of the project is to improve the performance of the shock absorber by designing and analysing the spring by changing it with three different material in various loading condition.</b>

### **M.Tech Mini Project**

Institution	<b>VIT University</b>
Designation	<b>M.Tech student</b>
Duration	<b>7 February to 10 May 2015 (Three Months)</b>
Project Title	<b>Methods of reducing buffeting noise in convertibles and to optimise its aerodynamic effects using CFD software ANSYS Fluent 15.0.</b>
Description	<b>Objective of the project is to reduce buffeting noise in convertibles to improve performance of vehicle and comfort of passenger. By having wind deflector and vortex generator buffeting intensity reduced by 30%.</b>

## **Journal Publication and Presentation**

- **Analysis of Effect of Polyurethane Bushing on stress distribution of Anti-Roll bar**, International Journal of Engineering Research and General Science Volume 4, Issue 3, May-June, 2016 ISSN 2091-2730
- Presented the paper "Effect of exhaust gas recirculation for LPG fuelled lean burn SI engine" in the 11<sup>th</sup> international conference on science, engineering and technology at VIT University, Vellore 2015
- Presented the paper "Optimum design of composite propeller shaft to replace existing steel shaft" in the 12<sup>th</sup> international conference on science, engineering and technology at VIT University, Vellore 2016

## **Extra-Curricular Activities (Academic)**

- Proficiency improvement programme on "Powertrain Engineering" organized by ARAI from 20<sup>th</sup> to 24<sup>th</sup> June 2016
- Proficiency improvement programme on "Automotive Engineering" organized by ARAI from 11<sup>th</sup> to 15<sup>th</sup> July 2016

## **Extra-Curricular Activities (Academic)**

- Coordinated a college level national event 'VISA-A-VIS' 2014
- Participated in National Level Paper presentation competition held at Wainganga college of engineering, Nagpur 2012.
- Attended and participated "A World in Motion" (AWIM) activity conducted by Society of Automotive Engineering (SAE) 2016

## **Industry Experience**

<b>Industry</b>	<b>Duration</b>	<b>Designation</b>
Mercedes Benz Research and Development, India	9 <sup>th</sup> Jan to 30 June 2017	Intern

## **Educational Details**

<b>Degree</b>	<b>Year of passing</b>	<b>Institute</b>	<b>University/ Board</b>	<b>Aggregate</b>
M. Tech Automotive Engineering	2017	VIT University-ARAI Academy	Vellore Institute of Technology-Vellore	7.1 (CGPA)
BE Mechanical	2014	Govt. College of Engineering	R.T.M.N.U Nagpur University	63%
HSC	2010	Bhawanji Bhai Chawhan High school	Maharashtra State Board	77%
SSC	2008	Bhawanji Bhai Chawhan High School	Maharashtra State Board	77.69%

## **SOFTWARE PROFECIENCY**

Modelling Software

- **Solid Works**
- **Pro-e**

Simulation Software

- **ANSYS (structural)**
- **Auto-Form R6**

## **PERSONAL STRENGTHS**

- Optimistic attitude towards challenges and obstacles – always like to look at challenges as opportunities to improve oneself and surrounding processes.
- Strong moral code of conduct.
- Quick learner with a passion for lifelong learning.
- Honest and forthcoming with colleagues and seniors.

## **PERSONAL PROFILE**

D. O. B	<b>09/08/1993</b>
Nationality	<b>Indian</b>
Fathers Name	<b>Late Mr. Ratnakar P. Tangadpalliwar</b>
Mothers Name	<b>Mrs. Rekha R. Tangadpalliwar</b>
Address	<b>Kalash Appartment-1, Opp. Mount convent, Mul Road, Chandrapur. 442401, Maharashtra</b>
Languages	<b>English, Hindi, Marathi, Telugu, Germen A1 (ongoing)</b>

## **Declaration**

**DECLARATION:** I hereby declare that the information furnished above is true to best of my knowledge

**Sonali R. Tangadpalliwar**